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## RG - Cables acc. to American Military-Specification MIL-C-17F resp. MIL-C-17G RG223



### Construction

		2YCCY
		0.89s/2.95Ds
		RG223
Inner conductor		copper wire, silver plated
	mm	0.90 ± 0.01
Insulation		PE
	mm	2.95 ± 0.05
1 <sup>st</sup> braid		silver plated, 96% optical coverage
2 <sup>nd</sup> braid		silver plated, 96% optical coverage
Sheath		PVC
	mm	5.40 ± 0.10

### Technical data

Product code	Designation	Type	Brand name	Outer diameter - meter mm	Weight approx. kg/km	Standard -delivery -length m	Drum size *PWD/ ring	Gross weight kg	Cop -per con -tent	Tensile force N
CK2776500	2YCCY	0.89s/2.95Ds	M17/84-RG223	5.4	60	1000/100	500/200/250	63/6	38.6	240
** CK2776502	2YCCY	0.89s/2.95Ds	M17/84-RG223	5.4	60	2000	760/360/580	132	38.6	240
*** CK2776504	2YCCY	0.89s/2.95Ds	M17/84-RG223	5.4	60	2000	760/360/580	132	38.6	240
**** CK2776505	2YCCY	0.89s/2.95Ds	M17/84-RG223	5.4	60	2000	760/360/580	132	38.6	240
***** CK2776506	2YCCY	0.89s/2.95Ds ws	M17/84-RG223	5.4	60	2000	760/360/580	132	38.6	240
CK2776599	2YCCY	0.89s/2.95Ds	M17/84-RG223	5.4	60	2000	760/360/580	132	38.6	240

\*PWD (plywood drum)

\*\*RG223 with close tolerance of the characteristic impedance ± 1 Ω and special customer marking

\*\*\*\*\*RG223 white and with close tolerance of the characteristic impedance ± 1 Ω and special customer marking

\*\*\*RG223 with special customer marking

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RG223**

**Electrical properties**

		2YCCY
		0.89s/2.95Ds
		RG223
DC resistance		
Inner conductor	$\Omega/\text{km}$	29.1
1 <sup>st</sup> braid	$\Omega/\text{km}$	13.5
2 <sup>nd</sup> braid	$\Omega/\text{km}$	15.5
Mutual capacitance	pF/m	100
Characteristic impedance	$\Omega$	50 $\pm$ 2
Velocity ratio	%	66
Structural return loss		
100 MHz	dB	$\geq 27$
1GHz		$\geq 23.5$
2 GHz		$\geq 21.5$
4-5 GHz		$\geq 21.0$
10 GHz		$\geq 20$
Maximum operating frequency	GHz	12.4
Attenuation at		
50 MHz	dB/100m	9.8
400 MHz		29.3
1000 MHz		45.9
3000 MHz		83.1
5200 MHz		112.7
5800 MHz		120.6
Maximum Power rating at (ambient + 25°C)		
50 MHz	Watts	350
400 MHz		86
1000 MHz		50
3000 MHz		32
5200 MHz		24
5800 MHz		22
Operating voltage	KV <sub>rms</sub>	1.4
Test voltage		
	KV <sub>rms</sub>	5.0

**Mechanical properties**

Operating temperature	- 40°C to 85°C
Installation temperature	- 15°C to 55°C
Minimum bending radius (during installation)	
without load	5 x outer diameter
with load	10 x outer diameter
Fire propagation test	acc. to IEC 332-1 and VDE 0472, part 804 class B

**All other requirements acc. to MIL-C-17F respectively MIL-C-17G**